

264-666

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Washington, D.C. 20460

OFFICE OF  
CHEMICAL SAFETY AND  
POLLUTION PREVENTION

January 8, 2013

George Sabbagh  
Bayer CropScience LP  
P.O. Box 12014  
Research Triangle Park, NC 27709

Subject: Notification per PR Notice 98-10 (add CA Prop 65 statement, update S&D)  
Puma 1EC Herbicide  
EPA Reg. No. 264-666  
Application Dated December 5, 2012

Dear Mr. Sabbagh:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the subject product. The Registration Division (RD) has conducted a review of this request and finds that the action falls within the scope of PRN 98-10. The label submitted with the application has been date-stamped "Notification" and will be placed in our records.

If you have any questions, please contact Mindy Ondish at (703)605-0723 or at [ondish.mindy@epa.gov](mailto:ondish.mindy@epa.gov).

Sincerely,

*Mindy Ondish, for*

Kathryn V. Montague  
Product Manager 23  
Herbicide Branch  
Registration Division (7505P)





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### PRODUCT INFORMATION

PUMA® 1EC Herbicide is a postemergence herbicide for the control of green and yellow foxtail (pigeongrass), volunteer and wild millet species, barnyardgrass and wild oat in wheat (including durum wheat) and barley.

### DIRECTIONS FOR USE

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

Do not use this product until you have read the entire label. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

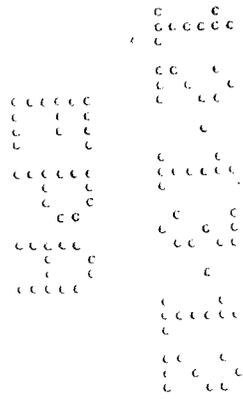
For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

For early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, wear: coveralls over long-sleeved shirt and long pants; socks and chemical resistant footwear. Wear goggles or face shield, and chemical resistant gloves (such as nitrile, butyl, neoprene, and/or barrier laminate).



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## APPLICATION INFORMATION

**Ground Application:** DO NOT apply when winds are gusty, or when conditions will favor movement of spray particles off the desired spray target. To avoid drift and ensure consistent weed control, apply PUMA 1EC Herbicide with the spray boom as low as possible while maintaining a uniform spray pattern. Ten (10) gallons of spray solution per acre is recommended. Under conditions where large grass weeds or dense weed populations are present or adverse environmental conditions exist, a greater spray volume of 15 – 20 gallons of spray solution per acre is required for best weed control. A minimum of 5 gallons of spray solution may only be used under conditions that are ideal for weed control. Herbicide applications can be negatively impacted by environmental conditions, weed populations, and tank mix partners. Use a recommended spray pressure of 40 psi with flat-fan nozzle tips spaced 10 to 20 inches apart across the boom. Ground speed for application should not exceed 10 mph. To get uniform spray coverage, use nozzles to provide 200 to 350 micron size droplets. DO NOT apply with hollow cone type nozzles or other nozzles that produce a fine droplet spray.

**Aerial Application:** Calibrate the spray equipment prior to use. PUMA 1EC Herbicide should be applied in a minimum of 5 gallons of water per broadcast acre. To get uniform spray coverage, use nozzles to provide 200 to 350 micron size droplets. DO NOT use raindrop nozzles. Aerial applications with this product should be made at a maximum height of 10 feet above the crop with low drift nozzles at a maximum pressure of 40 psi. Avoid application under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur.

Flagmen and loaders should avoid inhalation of spray mist and prolonged contact with skin.

## INFORMATION ON HERBICIDE TOLERANT WEEDS

Repeated use of the same herbicide or related herbicides may result in rare, naturally tolerant weeds multiplying to economic infestations. In areas with consistent use of the same herbicide or herbicide mode-of-action, crop rotation and application of alternative mode of action herbicides are encouraged to prevent and/or reduce weed tolerance. For further information, contact a Bayer CropScience representative or your local or state extension service.

## WEED RESISTANCE

### Mode of Action

The active ingredient in this product, fenoxaprop-p-Ethyl is a Group 1 Herbicide based on the mode of action classification system of the Weed Science Society of America. Any weed population may contain plants naturally resistant to Group 1 herbicides. Weeds resistant to these herbicides may be effectively managed utilizing another herbicide from a different Group and/or by using cultural or mechanical practices. However, a herbicide mode of action classification by itself may not adequately address specific weeds that are resistant to specific herbicides. Consult your local company representative, state cooperative extension service, professional consultants, or other qualified authorities to determine appropriate actions for treating specific resistant weeds.

## Best Management Practices

Puma® Herbicide inhibits the ACC-ase enzyme system. Repeated use of herbicides with the same mode of action allows resistant weeds to spread. Proactively implementing diversified weed management programs may delay the development of resistant weeds. Diversified programs include the use of multiple herbicides with different modes of action with overlapping weed spectrums as well as the utilization of cultural weed control practices, such as tillage.

- Use labeled rates of herbicides and carefully follow the directions for use
- Scout fields after a herbicide application to facilitate early detection of weed shifts and/or weed resistance
- Implement measures to avoid allowing weeds to reproduce by seed or proliferate vegetatively
- Clean equipment between sites and avoid movement of plant material between sites to retard the spread of potentially resistant weed seed.

## TIMING OF APPLICATION

### Wheat

Apply PUMA 1EC Herbicide to the crop from emergence up to 60 days prior to harvesting wheat in the states of Minnesota, Montana, North Dakota, and South Dakota. DO NOT apply PUMA 1EC Herbicide on wheat within 70 days of harvest in other states.

### Barley

Apply PUMA 1EC Herbicide to the crop from emergence up to the 5-leaf stage. Do not spray barley after jointing begins. DO NOT apply PUMA 1EC Herbicide within 57 days of harvesting barley. Under cool, wet conditions, tank mixing MCP Ester or MCP Ester + Harmony GT (at listed rates) with PUMA 1EC Herbicide will further improve crop safety in barley.

PUMA 1EC Herbicide will control susceptible grass weeds in the 1-leaf (fully expanded) to 2-tiller stage of growth. Blackgrass can be controlled over a wide range of growth stages, from the 1-leaf (fully expanded) through the advanced tillering stage. Windgrass will be controlled from emergence to a height of 3 inches. Applications should be made to young, vigorously growing weeds.

PUMA 1EC Herbicide has no effect via the soil and will only control emerged grass weeds. PUMA 1EC Herbicide, when applied as directed, controls the annual grass weeds listed in Table 1 below at rates indicated.

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**Table 1.  
RATE RECOMMENDATION CHART  
for Grass Weed Control**

Grass Weed Species, Common Name	Grass Weed Species, Scientific Name	Rate, Pints per Acre (Fluid Ounces/Acre)	Tankmix Table
Green foxtail	<i>Setaria viridis</i>	0.33 (5.3)	See Table 2
Foxtail millets (volunteer), common, Siberian, Hungarian, German millet	<i>Setaria italica</i>		
Volunteer corn	<i>Zea mays</i>		
Yellow foxtail	<i>Setaria lutescens</i>	0.40 (6.4)	See Table 3
Proso millet (volunteer, wild)	<i>Panicum iliaceum</i>		
Barnyardgrass	<i>Echinochloa crus-galli</i>	0.66 (10.6)	See Table 4
Blackgrass	<i>Alopecurus myosuroides</i>		
Hood canarygrass	<i>Phalaris paradoxa</i>		
Littleseed canarygrass	<i>Phalaris minor</i>		
Windgrass	<i>Apera interrupta</i>		
Wild oat	<i>Avena fatua</i>		
Field sandbur	<i>Cenchrus incertus</i>		
Woolly cupgrass	<i>Eriochloa villosa</i>		

**MOISTURE EFFECTS ON ANNUAL GRASS WEED CONTROL**

The following conditions will result in optimum wild oat control:

1. Adequate soil moisture, which occurs under normal rainfall in wheat or barley following a fallow year.
2. Temperatures lower than 85° F for several days prior to application.

Low soil moisture levels, low humidity, and high temperatures prior, during or following application may reduce wild oat and foxtail control provided by PUMA 1EC Herbicide.

Foxtail under drought stress will exhibit rolled leaves ("onion leaf") and should not be sprayed as poor control may result. Apply PUMA 1EC Herbicide when conditions improve.

**TANK MIX COMBINATIONS**

When tank mixing, read and follow the precautionary statements, directions for use, weeds controlled, geographic, and other restrictions on the labeling of each tank mix partner used. Use in accordance with the most restrictive label limitations and precautions. Tank mix partners not recommended on this label may cause reduced annual grass control (antagonism) or crop injury. PUMA® 1 EC Herbicide contains 0.294 lbs. of mefenpyr-diethyl per gallon of product. Applying the maximum-labeled rate of PUMA 1EC Herbicide delivers 0.023 lbs of mefenpyr-diethyl per acre. Do not apply more than 0.053 pounds of mefenpyr-diethyl per acre per year. Do not apply any pesticide, not listed on this label, 5 days before or after an application of PUMA 1EC Herbicide. Do not tank mix PUMA 1EC Herbicide with liquid fertilizers unless specifically listed on this label.

**Compatibility Testing with Tank Mix Partners**

If PUMA 1EC Herbicide is to be tank mixed with other pesticides, compatibility should be tested prior to mixing. To test for compatibility, use a small container and mix a small amount (0.5 to 1 qt) of spray, combining all ingredients in the same ratio as the anticipated use. If any indications of physical incompatibility develop, do not use this mixture for spraying. Indications of incompatibility usually will appear within 5-15 minutes after mixing. Read and follow the label of each tank-mix product used for precautionary statements, directions for use, geographic and other restrictions.

**Insecticides**

PUMA 1EC Herbicide may be tank mixed with Furadan® 4F, Sevin® XLR PLUS, or Warrior® insecticides if timing for insect and weed control is proper. Do not tank mix with malathion as wild oat control will be reduced.

**Fungicides**

Fungicides such as mancozeb (Dithane F-45®; Manzate® 75DF; Penncozeb® 75DF), Tilt® and Stratego® without additional adjuvant, or Topsin® M can be tank mixed with PUMA 1EC Herbicide, when timing for application of each tank mix partner is the same for the use site.

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**Broadleaf Herbicides**

Broadleaf weed control options are listed in Tables 2, 3, or 4, when timing of application for each tank mix partner is the same for the use site. Always check the tank mix partner label to determine if the addition of a surfactant is required.

**Tank Mixes for Green Foxtail, Foxtail Millets, and Volunteer Corn Control**

The tank mix partners listed in Table 2 may be used for the control of green foxtail, foxtail millets, and volunteer corn with PUMA® 1 EC at a rate of 0.33 pt/A. If wild oat or yellow foxtail is the primary weed, see sections addressing tank mixes for these weeds.

**Table 2.  
Green Foxtail, Foxtail Millets, Volunteer Corn**

Herbicides for Broadleaf Weed Control	Rate	<b>Range of Dosages:</b> *** 0.50 - 0.75 pt/A of MCP Ester (4 lb/gal – formulation) may be added as an option
Ally® 60DF	0.10 oz/A	Yes
Amber® 75DF	0.28 oz/A	Yes
Banvel® (for use on wheat only) (4 lb/gal)	2.00 fl oz/A	Yes
Banvel® SGF (for use on wheat only) (2 lb/gal)	4.00 fl oz/A	Yes
Bronate Advanced™ Herbicide */**	0.80 pt/A	No
Bronate Advanced™ + Starane™	0.60 – 0.80 pt/A + 0.25 – 0.33 pt/A	No
Buctril® Herbicide */**	1.00 pt/A	Yes
Clarity® (for use on wheat only)	2.00 fl oz/A	Yes
Curtail™ M	1.75 pt/A	No
Curtail™ M + Clarity® (for use on wheat only)	1.75 pt/A + 2.00 oz/A	No
Curtail™ M + Starane™	1.75 pt/A + up to 0.66 pt/A	No
Express® 75DF	1/6 oz/A	Yes
Finesse	0.28 oz/A	Yes
Harmony® Extra 75DF	0.30 – 0.40 oz/A	Yes
Harmony® Extra + Starane™	0.30 oz/A + up to 0.66 pt/A	No
Harmony® GT	0.30 – 0.50 oz/A	Yes
Harmony® GT + Starane™	0.30 oz/A + up to 0.66 pt/A	No
MCP Ester (4 lb/gal) ***	0.75 pt/A	No
Peak®	0.50 oz/A	Yes
Rave®	4.00 oz/A	No
Starane™	Up to 0.66 pt/A	Yes
Stinger™	0.25 – 0.33 pt/A	Yes

\* Equivalent bromoxynil products may be substituted in a tank mix for these products.  
 \*\* Do not tankmix PUMA® 1EC with either Buctril® Herbicide or Bronate Advanced™ Herbicide on two row raiting barley.  
 \*\*\* 4 lb/gal formulation of MCP Ester. Other formulations of MCP Ester may be used providing 0.25 - .375 lb ai/ A of MCP Ester is used.







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### Directions for the Control of Wild Oat, Littleseed Canarygrass, and Hood Canarygrass in Wheat and Barley in California Only

#### PUMA 1EC Herbicide Application Rates

Grasses (2-leaf to 2-tiller stage)	Broadcast Rate in Pints/Acre (Fluid Ounces/Acre)
Wild oat	0.66 (10.6)
Hood canarygrass	
Littleseed canarygrass	

**Notes:** In California, PUMA 1EC Herbicide may be tank mixed with Buctril® Herbicide. Follow the label directions, use restrictions and precautions for use of Buctril® Herbicide, when tank mixing it with PUMA 1EC Herbicide.

#### SPECIAL NOTES

1. Rainfall within 1 hour of an application may cause a reduction in weed control.
2. DO NOT make more than 1 application in a growing season; DO NOT apply more than 0.66 pints per acre per growing season.
3. DO NOT apply this product through any irrigation system.
4. Tank mix partners not recommended on this label may cause reduced annual grass control or crop injury. Do not apply any pesticide, not listed on this label, 5 days before or after an application of PUMA 1EC Herbicide.
5. Due to reduced weed control, do not tank mix with other herbicides or liquid fertilizers unless specifically listed on this label.
6. DO NOT use when there is hazard from drifting mists. Coarse sprays are less likely to drift.

### Directions for the Control of Wild Oat in Winter Wheat in Texas and Oklahoma Only

#### PUMA 1EC Herbicide Application Rates

Grasses (2-leaf to 2-tiller stage)	Broadcast Rate in Pints/Acre (Fluid Ounces/Acre)
Wild oat	0.66 (10.6)

**Note:** In Texas and Oklahoma, PUMA 1EC Herbicide may be tank mixed with Ally®, Harmony® Extra, MCP Ester and Peak®. Follow label directions, use restrictions and precautions for use of these tank mix partners when tank mixing with PUMA 1EC Herbicide.

#### SPECIAL NOTES

1. Rainfall within 1 hour of an application may cause a reduction in weed control.
2. DO NOT harvest winter wheat until 70 days after application.
3. DO NOT make more than 1 application in a growing season; DO NOT apply more than 0.66 pints per acre per growing season.
4. DO NOT apply this product through any irrigation system.
5. Tank mix partners not recommended on this label may cause reduced annual grass control or crop injury. Do not apply any pesticide, not listed on this label, 5 days before or after an application of PUMA 1EC Herbicide.
6. Due to reduced weed control, do not tank mix with other herbicides or liquid fertilizers unless specifically listed on this label.
7. DO NOT use when there is hazard from drifting mists. Coarse sprays are less likely to drift.

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## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment.

### Pesticide storage

Store in original container away from feed and food. Store in cool, dry area. Do not store in direct sunlight. Do not allow prolonged storage in temperatures that exceed 105°F (40°C) or in temperatures that fall below 14°F (-10°C).

### Pesticide disposal

To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

### Container handling

#### Rigid, Non-refillable containers (equal to or less than 5 gallons)

Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure-rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Once container is rinsed, offer for recycling if available or puncture and dispose of in a sanitary landfill.

#### Rigid containers (greater than 5 gallons or 50 lb)

##### **Non-refillable Containers**

Non-refillable containers - Do not reuse or refill this container. Refer to Bottom Discharge IBC or Top Discharge IBC, Drums, Kegs information as follows.

##### Bottom Discharge IBC (e.g. - Schuetz Caged IBC or Snyder Square Stackable)

Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. To pressure rinse the container before final disposal, empty the remaining contents from the IBC into application equipment or mix tank. Raise the bottom of the IBC by 1.5 inches on the side which is opposite of the bottom discharge valve to promote more complete product removal. Completely remove the top lid of the IBC. Use water pressurized to at least 40 PSI to rinse all interior portions. Continuously pump or drain rinsate into application equipment or rinsate collection system while pressure rinsing. Continue pressure rinsing for 2 minutes or until rinsate becomes clear. Replace the lid and close bottom valve. Once container is rinsed, offer for recycling if available or puncture and dispose of in a sanitary landfill.

##### Top Discharge IBC, Drums, Kegs (e.g. - Snyder 120 Next Gen, Bonar B120, Drums, Kegs)

Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. To triple rinse the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container at least 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Rinse all interior surfaces. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this procedure two more times. Once container is rinsed, offer for recycling if available or puncture and dispose of in a sanitary landfill.

##### **Refillable Containers**

Refillable container - Refer to Bottom Discharge IBC or Top Discharge IBC, Drums, Kegs information as follows. Refill this container with pesticide only. Do not reuse this container for any other purpose. Contact your Ag retailer or Bayer CropScience for container return, disposal, and recycling information.

##### Bottom Discharge IBC (e.g. - Schuetz Caged IBC or Snyder Square Stackable)

Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To pressure rinse the container before final disposal, empty the remaining contents from the IBC into application equipment or mix tank. Raise the bottom of the IBC by 1.5 inches on the side which is opposite of the bottom discharge valve to promote more complete product removal. Completely remove the top lid of the IBC. Use water pressurized to at least 40 PSI to

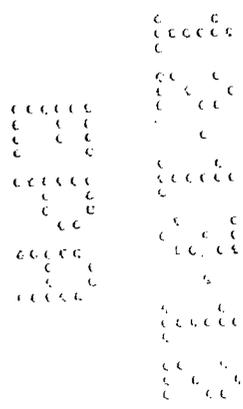
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rinse all interior portions. Continuously pump or drain rinsate into application equipment or rinsate collection system while pressure rinsing. Continue pressure rinsing for 2 minutes or until rinsate becomes clear. Replace the lid and close bottom valve.

Top Discharge IBC, Drums, Kegs (e.g. – Snyder 120 Next Gen, Bonar B120, Drums, Kegs).

Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To triple rinse the containers before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container at least 10 percent full with water. Agitate vigorously or recirculate water with the pump, for 2 minutes. Rinse all interior surfaces. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this procedure two more times. Once container is rinsed, offer for recycling if available or puncture and dispose of in a sanitary landfill.

End users are authorized to remove tamper evident cables as required to remove the product from the container unless the container is equipped with one-way valves and refilling or returning is planned. If this is the case, end users are not authorized to remove tamper evident cables, one-way valves or clean container.



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**IMPORTANT: READ BEFORE USE**

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Bayer CropScience. All such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Bayer CropScience LP is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

**LIMITATIONS OF LIABILITY:** TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT BAYER CROPSCIENCE LP'S ELECTION, THE REPLACEMENT OF PRODUCT.

Warning: This product contains a chemical known to the State of California to cause developmental harm.

**Net Contents: 2.5 gallons, 5 gallons, 15 gallons, 60 gallons, 120 gallons and returnable and refillable containers 15 and 30 gallons, and bulk**

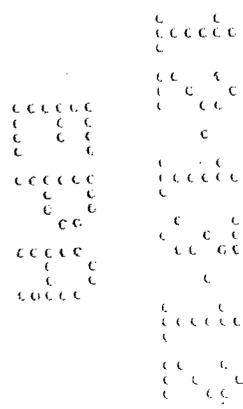
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Produced for



**Bayer CropScience**

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PUMA 1EC Herbicide (PENDING) 11/28/12